

β -Keto phosphonic esters Communication 12. Structures of the products of the reaction of some α -halo ketones of the aromatic series with triethyl phosphite and with sodium diethyl phosphite

Arbuzov B., Vinogradova V., Polezhaeva N., Shamsutdinova A.
Kazan Federal University, 420008, Kremlevskaya 18, Kazan, Russia

Abstract

1. According to chemical and spectroscopic data the product of the reaction of 2-bromoacetophenone with sodium diethyl phosphite is a difficultly separable mixture of esters of similar structure, namely diethyl 1-phenylvinyl phosphate and diethyl 1,2-epoxy-1-phenylethylphosphonate. 2. The product of the action of 2-bromopropiophenone on sodium diethyl phosphite is diethyl 1,2-epoxylphenylpropylphosphonate. 3. The reaction of 2-bromopropiophenone with triethyl phosphite gave diethyl 1-methylphenacylphosphonate and diethyl 1-phenylpropenyl phosphate. 4. The reactions of 2-bromo-2-methylpropiophenone, in which the bromine is on a tertiary carbon atom, with triethyl phosphite and with sodium diethyl phosphite take the same direction with formation of diethyl 2-methyl-1-propenyl phosphate. © 1964 Consultants Bureau.

<http://dx.doi.org/10.1007/BF00847793>
